

Lincomycin hydrochloride

Cell Culture Tested

Product Code: TC203

Product Description :

Molecular Weight: 443

Molecular Formula: $C_{18}H_{34}N_2O_6.S.HCl$

CAS No: 859-18-7

Synonym: Lincocin hydrochloride, Methyl-6,8-dideoxy-6-(1-methyl-4-propyl-2-pyrrolidincarboxamido)-1-thio-D-erythro- α -D-galactooctopyranoside hydrochloride

Lincomycin hydrochloride is a lincosamide antibiotic produced by *Streptomyces lincolnensis* var. *lincolnensis*. It acts by inhibiting protein synthesis at prokaryotic ribosomal level. It binds to 50S ribosomal subunit in bacteria and inhibits the activity of peptidyl transferase, an enzyme that facilitates binding of aminoacyl RNA to messenger ribosome complex. It is usually considered bacteriostatic, but may be bactericidal at high concentrations or when used against highly susceptible organisms. It is very effective against Gram-positive and anaerobic bacteria. However, it is not effective against most Gram-negative organisms.

In cell culture, it is used as an anti-microbial agent to prevent contamination.

Directions :

For cell culture applications, lincomycin hydrochloride is used at concentration of 100mg/L.

Preparation instructions:

Lincomycin hydrochloride is readily soluble in water. Lincomycin solution should be sterilized by filtering through a sterile membrane filter with a porosity of 0.22micron or less.

Quality Control:

Appearance

White crystalline powder.

Solubility

Clear colorless solution at 5gm in 100ml of water .

Water Content

NMT 5%

Assay

NLT 95%

Potency

800 - 900U/mg

Antibiotic Sensitivity

Complies

Cell Culture Test

Passes

Storage and Shelf Life:

Store lincomycin powder at 2° to 8°C.

Shelf life is 36 months.

Lincomycin solution remains stable for up to 4 days at 37°C.

Use before expiry date given on product label.

Revision No: 1 / 2013

Disclaimer :

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